U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Raritan Bay Slag Site - Remedial - Removal Polrep

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region II

Subject: **POLREP #3**
Progress
Raritan Bay Slag Site - Remedial
A205
Old Bridge, NJ
Latitude: 40.4543218 Longitude: -74.2381070

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Date: 8/18/2017
Reporting Period: July 21, 2017 to August 18, 2017

1. Introduction

1.1 Background

Site Number:	A205	**Contract Number:**	EP-S2-15-02
D.O. Number:	D.O.#47/#54	**Action Memo Date:**	
Response Authority:	CERCLA	**Response Type:**	
Response Lead:	EPA	**Incident Category:**	
NPL Status:	NPL	**Operable Unit:**	
Mobilization Date:	2/21/2017	**Start Date:**	2/21/2017
Demob Date:		**Completion Date:**	
CERCLIS ID:	NJN000206276	**RCRIS ID:**	
ERNS No.:		**State Notification:**	
FPN#:		**Reimbursable Account #:**	

1.1.1 Incident Category

On-going release of heavy metals into adjacent soil, wetlands and water. The source of the heavy metals are related to the waste created during the recovery of lead from used batteries. The waste is primarily in the form of slag and battery casings. This waste was used as fill in the Margaret's Creek portion of the Site. The presence of this waste has been confirmed and will be removed and disposed off-site. This work is being performed as a Remedial Action pursuant to the Record of Decision (ROD) for the Site.

1.1.2 Site Description

The Margaret's Creek Sector of the Raritan Bay Slag Site is approximately 47-acres of open space consisting of wetland and upland areas. Portions of the upland area is filled with slag and battery casings. The slag was brought to the Site approximately 50 years ago.

1.1.2.1 Location

The Margaret's Creek Sector of the Raritan Bay Slag Site is located between the Laurence Harbor and Cliffwood Beach sections of Old Bridge Township, Middlesex County, New Jersey.

1.1.2.2 Description of Threat

EPA has conducted multiple sampling events at the Site since 2008 under both the removal and remedial programs. The sampling activities included the collection of soil, sediment, water, and waste samples within the Margaret's Creek Sector. Analytical results generated by EPA indicate that significantly elevated levels of lead and other heavy metals are present in the soils and sediment. Analytical results for surface soil samples collected within the Margaret's Creek Sector were as high as: 78,000 mg/kg for lead. Representative samples of the excavated wastes generated during previous mitigation work have exceeded the Resource Conservation and Recovery Act Toxicity Characteristic Leaching Procedure limit for lead (5 mg/l).

1.1.3 Preliminary Remedial Assessment/Remedial Site Inspection Results

Information pertaining to the assessment and Site inspection results can be found in the Record of Decision (ROD) and the Final Design Analysis Report (DAR) for the Site, which are available through the Remedial Project Manager and website established for this Site.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

The overall approach to this Remedial Action is to remove crushed battery casings, slag and lead-contaminated soil to prevent the direct contact threat to the public and the migration of contaminated materials to adjacent wetlands, and public recreation areas.

As part of this approach, contaminated soil, slag, and debris is being excavated and stockpiled on a 30 mil HDPE impermeable liner. Stockpiled waste material are then screened to remove slag, rocks, and debris larger than 6-inches in size. The screening process results in two waste streams; 1)waste larger than 6-inches consisting primarily of slag and 2) waste less than 6-inches consisting primarily of soil, battery casings and smaller pieces of slag. Slag waste larger than 6-inches cannot be properly stabilized and must be crushed prior to treatment.

2.1.2 Response Actions to Date

Response actions completed prior to July 21, 2017 are described in previous POLREPs for the Site.

The following actions have been completed during this reporting period:

* Response actions in support of the Remedial Action included delineation soil sampling events for the purpose of defining the horizontal and vertical extent of lead contamination in areas of concern (AOC) identified in the DAR.

* On July 24, 2017, surficial suspected asbestos-containing material (SACM), in the form of siding, was observed in AOC-E and W. Grab samples of the siding material were submitted for laboratory analysis and determined to contain 8 to 12 percent chrysotile asbestos. Material excavated from AOC-E have been stockpiled separately, sampled and submitted for disposal parameters. Results are expected to be received by August 30, 2017.

* Progress meetings with the Remedial Project Manager (RPM) were conducted on July 25, August 1, 8 and 15, 2017.

* On July 31, 2017, four (4) buried 55-gallon drums were identified in the western portion of AOC-H. The drums were secured in place pending sampling, consolidation and off-site disposal.

* On August 2, 3, 7 and 16, 2017, hazardous waste (D008) was transported off-site for stabilization and disposal. To date, a total of 1,250 tons of hazardous waste (<6-inches) was transported off-site. Excavation of slag and soil from AOC-H continued during this reporting period and is on-going.

* Perimeter air monitoring, in accordance with the Community Air Monitoring Plan (CAMP), was conducted by Weston Solutions, Inc. Weekly air monitoring summary reports are being provided to EPA and maintained on-site. No significant air exceedances were reported during the work day monitoring periods.

* On-site security services continued during non-working Site hours.

* Personal air monitoring on contractor operators and laborers began on July 20, 2017 and is being conducted by Environmental Restoration, LLC (ER). ER is EPA's emergency and rapid response services (ERRS) contractor for this project. To date, the sampling results have not been provided to EPA.

* On August 8, 2017, a vibratory screen was delivered to the Site to remove slag greater than 6-inches in diameter. Operation of the screen began on August 9, 2017. To date, approximately 2,000 tons of waste material have been screened and stockpiled.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

Enforcement activities are being managed by the Remedial Program.

2.1.4 Progress Metrics

Stabilization of the waste containing slag less than 6-inches in diameter is being conducted by Clean Earth of New Jersey, Kearny, NJ and transported to Grows North Landfill in Morrisville, PA for disposal. See Additional Sources of Information section for waste shipping and disposal information.

2.2 Planning Section

2.2.1 Anticipated activities for the next reporting period

2.2.1.1 Planned Response Activities

* Continue excavation, segregation and stockpiling activities in AOC-H, E and F.
* Continue perimeter air monitoring in accordance with the Community Air Monitoring Plan (CAMP).
* Delivery of additional supplies and equipment.
* Loading waste for off-site disposal.
* Excavation and stockpiling of slag, battery casings and soil.
* Collection of delineation and post-excavation soil samples.
* Collection of representative samples of proposed topsoil materials.

2.2.1.2 Next Steps

* Preparation of the weekly air monitoring report.
* Conducting the weekly progress meeting with the RPM.

2.2.2 Issues

The sequencing of excavation activities has deviated from the Design Analysis Report (DAR). Excavation work will proceed as follows: AOC H, E, U, V, W, S, Q, P, O, F, I, G, M, N, K, L/Y2, X1, X2, X3, Z and A.

Further evaluation of the buried 55-gallon drums has determined that they are significantly deteriorated and cannot be safely lifted. The contents will need to be transferred into new containers for disposal. The transfer of the contents will occur once the drum sampling analytical results are received and evaluated for potential hazards.

Samples of suspected asbestos-containing material have been received and determined to contain chysotile asbestos. The presence of asbestos will affect the waste profile and may result in additional handling/disposal costs.

Significant rainfall events may affect operations if the water level in Margaret's Creek rise and back up into the low-lying portions of the Site.

2.3 Logistics Section

No information available at this time.

2.4 Finance Section

2.4.1 Narrative

On September 9, 2016, $7,000,000 was allocated to the regional Emergency & Rapid Response Services (ERRS) contract for this project. On February 6, 2017, an additional $6,550,000 was added to the existing funding for the Remedial Action.

Funding for the Removal Support Team (RST) was allocated on October 27, 2016 ($200,000) and February 6, 2017 ($450,000).

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
ERRS - Cleanup Contractor	$13,550,000.00	$654,000.00	$12,896,000.00	95.17%
RST/START	$650,000.00	$165,000.00	$485,000.00	74.62%
Intramural Costs				
Total Site Costs	$14,200,000.00	$819,000.00	$13,381,000.00	94.23%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

2.5 Other Command Staff

2.5.1 Safety Officer

None

2.5.2 Liaison Officer

None

2.5.3 Information Officer

None

3. Participating Entities

3.1 Unified Command

3.2 Cooperating Agencies

: New Jersey Department of Environmental Protection;
: Middlesex County Parks and Recreation;
: Middlesex County Mosquito Commission;
: Middlesex County Utilities Authority;
: Old Bridge Township Municipal Utilities Authority;
: Old Bridge Township Parks and Recreation.

4. Personnel On Site

EPA OSC
EPA RPM
ERRS Contractor (6-7 personnel)
RST 3 Contractor (1-2 personnel)

5. Definition of Terms

Not Applicable

6. Additional sources of information

6.1 Internet location of additional information/report

Not Applicable

6.2 Reporting Schedule

Not Applicable

6.3 Disposal Table

Waste Stream	Medium	Manifest #	Quantity (tons)	Treatment	Disposal Facility
Hazardous Waste	Soil	017806063JJK	25.5200	Stabilization	Landfill
Hazardous Waste	Soil	017806064JJK	26.4100	Stabilization	Landfill
Hazardous Waste	Soil	017806065JJK	25.2400	Stabilization	Landfill
Hazardous Waste	Soil	017806066JJK	26.5500	Stabilization	Landfill
Hazardous Waste	Soil	017806038JJK	27.4400	Stabilization	Landfill
Hazardous Waste	Soil	017806039JJK	27.9300	Stabilization	Landfill
Hazardous Waste	Soil	017806040JJK	24.5900	Stabilization	Landfill

Hazardous Waste	Soil	017806041JJK	25.9700	Stabilization	Landfill
Hazardous Waste	Soil	017806042JJK	27.3500	Stabilization	Landfill
Hazardous Waste	Soil	017806043JJK	25.6100	Stabilization	Landfill
Hazardous Waste	Soil	017806044JJK	24.8700	Stabilization	Landfill
Hazardous Waste	Soil	017806045JJK	26.1100	Stabilization	Landfill
Hazardous Waste	Soil	017806046JJK	25.7600	Stabilization	Landfill
Hazardous Waste	Soil	017806047JJK	24.1300	Stabilization	Landfill
Hazardous Waste	Soil	017806048JJK	24.6400	Stabilization	Landfill
Hazardous Waste	Soil	017806049jjk	25.7300	Stabilization	Landfill
Hazardous Waste	Soil	017806050JJK	24.8200	Stabilization	Landfill
Hazardous Waste	Soil	017806051JJK	26.1400	Stabilization	Landfill
Hazardous Waste	Soil	017806052JJK	24.5900	Stabilization	Landfill
Hazardous Waste	Soil	017806053jjk	24.5800	Stabilization	Landfill
Hazardous Waste	Soil	017806055JJK	24.3200	Stabilization	Landfill
Hazardous Waste	Soil	017806054JJK	26.7000	Stabilization	Landfill
Hazardous Waste	Soil	017806056JJK	23.4800	Stabilization	Landfill
Hazardous Waste	Soil	017806057JJK	26.3500	Stabilization	Landfill
Hazardous Waste	Soil	017806058JJK	26.8700	Stabilization	Landfill
Hazardous Waste	Soil	017806059JJK	22.9800	Stabilization	Landfill
Hazardous Waste	Soil	017806060JJK	27.6200	Stabilization	Landfill
Hazardous Waste	Soil	017806061JJK	27.5200	Stabilization	Landfill
Hazardous Waste	Soil	017806062JJK	24.1500	Stabilization	Landfill
Hazardous Waste	Soil	017806069JJK	26.5400	Stabilization	Landfill
Hazardous Waste	Soil	017806067JJK	26.5700	Stabilization	Landfill
Hazardous Waste	Soil	017806068JJK	26.3100	Stabilization	Landfill
Hazardous Waste	Soil	017806070JJK	26.2600	Stabilization	Landfill
Hazardous Waste	Soil	017806072JJK	24.9700	Stabilization	Landfill
Hazardous Waste	Soil	017806071JJK	24.7300	Stabilization	Landfill
Hazardous Waste	Soil	017806073JJK	25.3900	Stabilization	Landfill
Hazardous Waste	Soil	017806074JJK	25.0400	Stabilization	Landfill
Hazardous Waste	Soil	017806075JJK	25.9100	Stabilization	Landfill
Hazardous Waste	Soil	017806076JJK	25.0900	Stabilization	Landfill
Hazardous Waste	Soil	017806077JJK	25.4800	Stabilization	Landfill
Hazardous Waste	Soil	017806079JJK	25.0300	Stabilization	Landfill
Hazardous Waste	Soil	017806078JJK	25.7800	Stabilization	Landfill
Hazardous Waste	Soil	017806080JJK	26.1700	Stabilization	Landfill
Hazardous Waste	Soil	017806081JJK	28.2700	Stabilization	Landfill
Hazardous Waste	Soil	017806082JJK	27.4700	Stabilization	Landfill
Hazardous Waste	Soil	017806083JJK	26.6100	Stabilization	Landfill
Hazardous Waste	Soil	017806084JJK	27.4900	Stabilization	Landfill
Hazardous Waste	Soil	017869590JJK	24.9900	Stabilization	Landfill
Hazardous Waste	Soil	017869589JJK	26.9700	Stabilization	Landfill
Hazardous Waste	Soil	017869588JJK	24.6100	Stabilization	Landfill

Total Tonnage 1,250 tons

		Landfill
Total Tonnage:	4,062.2450	

7. Situational Reference Materials

Not Applicable